Figure 1

Bc28.2 Bc28.1	MKGFFGIILSIIFVRAVSCTEDENRDSVVEGATSVEASLKEQIDWLAERYSADLTNKDTS MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERYSADLTNKDTS ************************************	
Bc28.2 Bc28.1	KWNTEEQVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM KWNTDEKVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM ****:*:******************************	
Bc28.2 Bc28.1	LYVLPNTHRELSSLKNKIDEWKKVKASDNGTNVIKNIKDDRTNTWFVAHGFKVAELNDVT LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWFVAHGFKVAELNDVT ****. ********************************	180 180
Bc28.2 Bc28.1	LEKLATVVKKLVSHKDMKYINKVMKKYFDRQKKE-AERLTKKAEKGMSGGKYKVKGYA LEKLATVVNELVSHKDMIYINDAMKQNVDKWTKEESERLAMMAEQGISGAKGKKDGFSFA ***********************************	
Bc28.2 Bc28.1	APSTWML 244 GLSVISLLVAAVAVVV 256 . *. *	

Figure 2

A8 BcB 34.01 BcA Robin Castres	MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERYSADLTNKDTS MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERYSADLTNKDTS MKGFFGIILSIIFVRAVSCTEDEKRDTVVEGATSVEASLKEQIDWLAERYSADLTNKDTS MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERYSADLTNKDTS MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERYSADLTNKDTS MKGFFGIILSIIFVRAVSCTEDEKRDSVVEGATSVEASLKEQIDWLAERYSADLTNKDTS ************************************	60 60 60 60 60
A8	KWNTDEKVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM	120
BcB	KWNTDEQVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM	
34.01	KWNTNEQVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM	
BcA	KWNTDEKVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM	
Robin	KWNTDEKVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM	120
Castres	KWNTDEQVKELLNEKAVGIESRLLAIAKEFHKLKSVLCTGVNETPAHVANRVSPGDAISM	120
	****:*:***********	
A8	LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWFVAHGFKVAELNDVT	180
BcB	LYVLSITHRELSSLKNKIDEWKKVKASDNGTNVIQNIKDDRTNTWFVAHGFKVAELNDVT	
34.01	LYVLSITHRELSSLKNKIDEWKKVKASDNGTNVIQNIKDDRTNTWFVAHGFKVAELNDVT	
BcA	LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWFVAHGFKVAELNDVT	
Robin	LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWFVAHGFKVAELNDVT	
Castres	LYVLSITHRELSSLKNKIDEWKKVKASEDGTKVIQNIKDDRTNTWFVAHGFKVAELNDVT	180
	*************	****
A8	LEKLATVVNELVSHKDMIYINDAMKONVDKWTKEESERLAMMAEQGISGAKGKKDGFSFA	240
BcB	LEKLATVVNELVSHNDMIYINDAMKONVDKWTKEESERLAMMAEOGISGAKGKKDGFSFA	
34.01	LEKVATVVNELVSHNDMIYINDAMKQNVDKWNKE-SERLAMMAEQGISGAKGKKDGFSFA	239
BcA	LEKLATVVNELVSHKDMIYINDAMKQNVDKWTKEESERLAMMAEQGISGAKGKKDGFSFA	
Robin	LEKLATVVNELVSHKDMIYINDAMKQNVDKWTKEESERLAMMAEQGISGAKGKKDGFSFA	240
Castres	LEKLATVVNELVSHNDMIYINDAMKQNVDKWNKE-SERLAMMAEQGISGAKGKKDGFSFA	239
	: ****** * * * * * * * * * * * *	
- 0	0.000	
A8	GLSVISLLVAAVAVVV 256	
BcB	GLSVISLLVAAVAVVL 256	
34.01	GLSVISLLVAAVAVVL 255	
BcA	GLSVISLLVAAVAVVV 256	
Robin	GLSVISLLVAAVAVVV 256	
Castres	GLSVISLLVAAVAVVL 255	

Figure	3
---------------	---

	5'UTR Met	
Bc28.2 Bc28.1	AGTCGATACCTCCGAGAATAGTCTTGTATTAATCCTGTCGCTATTCACAATGAAGGGT AGTCGATACCTCCGAGAATAGTCTTGTATTAATCCTGTCGCTATTCACAATGAAGGGT	TT 60
	Fspe3	
Bc28.2 Bc28.1	CTTCGGAATTATTTTGTCTATTATTTTCGTTCGTGCCGTTAGCTGCACTGAGGATGAG CTTCGGAATTATTTTTGTCCATTATTTTTTGTTCGTGCCGTTAGCTGCACTGAGGATGAG *****************************	AA 120
Bc28.2 Bc28.1	CAGGGATAGTGTCGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATC AAGGGATAGTGTCGTCGAGGGCGCTACGTCCGTTGAAGCCAGCTTAAAGGAGCAGATC	GA 180
Bc28.2 Bc28.1	CTGGCTCGCTGAACGTTATTCCGCTGACTTGACTAACAAAGACACTTCAAAATGGAAT CTGGCTCGCTGAACGTTATTCCGCTGACTTGACT	CAC 240
Bc28.2 Bc28.1	CGAAGAGCAGGTGAAGGAGCTGTTAAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCGACGAGAAGGTGAAGGAGCTGTTGAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTTCAATGAGAAGGCTGTTGGCATAGAGTCTCGCCTT	CT 300
Bc28.2 Bc28.1	TGCCATTGCTAAGGAGTTCCACAAATTGAAGTCCGTTCTGTGCACCGGTGTCAACGAA TGCCATTGCTAAGGAATTCCACAAATTGAAGTCCGTTCTGTGCACCGGCGTCAACGAA ********************************	AAC 360
Bc28.2 Bc28.1	TCCCGCTCATGTCGCTAACAGGGTGTCACCCGGAGACGCCATCTCCATGCTTTACGT(TCCCGCTCATGTCGCTAACAGGGTGTCACCCGGAGACGCCATCTCCATGCTCTACGT(GCT 420
Bc28.2 Bc28.1	TCCTAACACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAA TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAA * *** **************************	GGT 480
Bc28.2 Bc28.1	CAAGGCATCTGACAATGGCACCAATGTGATCAAAAATATCAAGGACGACAGGACTAA CAAGGCATCTGAAGATGGCACCAAAGTGATCCAAAATATCAAGGACGACAGGACTAA **********************************	CAC 540
	Cons3.1	
Bc28.2 Bc28.1	CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTAACCCTTGAGAA CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTCACCCTTGAGAA ********************************	
Bc28.2 Bc28.1	TGCAACAGTGGTTAAAAAATTGGTGTCCCACAAAGATATGAAATACATTAACAAAGT TGCAACAGTGGTTAACGAATTGGTGTCCCACAAAGATATGATTTACATTAACGACGC *******************************	TAT 660
Bc28.2 Bc28.1	GAAAAATATTTTGACAGGCAGAAAAAGGAGGCTGAAAGATTGACCAAAAAGGC GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGC *** ** **** * **** * ****** ******* ****	TGA 720
Bc28.2 Bc28.1	GAAGGGTATGTCTGGAGGTAAGTATAAGGTGAAAGGTTATGCAGCCCCCTCTACTTG ACAGGGTATATCTGGAGCCAAGGGTAAGAAGGATGGATTCTCATTCGCCGGT-CTTA ****** ****** *** *** * * * * * * * *	G-T 778

										Rspe3G	ì
	Stop									•	
Bc28.2	GCTA TGACCATGCA	racaa	GTTGC	CAAC	TAAC	ATTAACA	TTA	TTG	AAG	CCTG-TAC	831
Bc28.1	GTCATCAGCCTTCT					STC TAAGI		TTA		ATGACTAT	838
	* ** * * *	*	** *	* *	*	 ***	*	* *	*	←	
			Rspe	4		Stop				Rspe3C	;
Bc28.2	TCCTCAATGAGCTC	845									
Bc28.1	TTGTGGGCGTAATG	852									
	* * * *										

Figure 4

	5'UTR	Met	
A8	AGTCGATACCTCCGAGAATAGTCTTGTATT	ATCCTCTCCCTATTCACAATGAAGGGTTT	60
BcB	AGTCGATACCTCCGAGAATAGTCTTATATT		60
34.01	AGTCGATACCTCCGAGAATAGTCTTATATT7		60
Castres	AGTCGATACCTCCGAGAATAGTCTTATATT7	ATCTTGCCGCTATTCACAATGAAGGGTTT	60
Robin	AGTCGATACCTCCGAGAATAGTCTTGTATTA	ATCCTGTCGCTATTCACAATGAAGGGTTT	60
BcA	AGTCGATACCTCCGAGAATAGTCTTGTATTA		60
	***********	**** * **********	
		Fspe3	
A8	CTTCGGAATTATTTTGTCCATTATTTTTGT	CGTGCCGTTAGCTGCACTGAGGATGAGAA	120
ВсВ	CTTCGGAATTATTTTGTCCATTATTTTTGT		
34.01	CTTCGGAATTATTTTGTCCATTATTTTTGT	CGTGCCGTTAGCTGCACTGAGGATGAGAA	120
Castres	CTTCGGAATTATTTTGTCCATTATTTTTGT	CGTGCCGTTAGCTGCACTGAGGATGAGAA	120
Robin	CTTCGGAATTATTTTGTCCATTATTTTTGT	CGTGCCGTTAGCTGCACTGAGGATGAGAA	120
BcA	CTTCGGAATTATTTTGTCCATTATTTTTGT	ICGTGCCGTTAGCTGCACTGAGGATGAGAA	120
	********	*********	
A8	AAGGGATAGTGTCGTCGAGGGCGCTACGTC	CGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180
BcB		CGTTGAAGCCAGCTTAAAGGAGCAGATCGA	
34.01	AAGGGATACTGTCGTCGAGGGCGCTACGTC	CGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180
Castres	AAGGGATAGTGTCGTCGAGGGCGCTACGTC	CGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180
Robin	AAGGGATAGTGTCGTCGAGGGCGCTACGTC	CGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180
BcA	AAGGGATAGTGTCGTCGAGGGCGCTACGTC	CGTTGAAGCCAGCTTAAAGGAGCAGATCGA	180
	*******	*********	
A8	CTGGCTCGCTGAACGTTATTCCGCTGACTT	GACTAACAAAGACACTTCAAAATGGAATAC	240
BcB	CTGGCTCGCTGAACGTTATTCCGCTGACTT	GACTAACAAAGACACTTCAAAATGGAATAC	240
34.01	CTGGCTCGCTGAACGTTATTCCGCTGACTT	GACTAACAAAGACACTTCAAAATGGAATAC	240
Castres	CTGGCTCGCTGAACGTTATTCCGCTGACTT	GACTAACAAAGACACTTCAAAATGGAATAC	240
Robin	CTGGCTCGCTGAACGTTATTCCGCTGACTT	GACTAACAAAGACACTTCAAAATGGAATAC	240
BcA	CTGGCTCGCTGAACGTTATTCCGCTGACTT	GACTAACAAAGACACTTCAAAATGGAATAC	240
	********	*********	
A8	CGACGAGAAGGTGAAGGAGCTGTTGAATGA	GAAGGCTGTTGGCATAGAGTCTCGCCTTCT	300
ВсВ	CGACGAGCAGGTGAAGGAGCTGTTGAATGA	GAAGGCTGTTGGCATAGAGTCTCGCCTTCT	300
34.01	CAACGAGCAGGTGAAGGAACTGTTGAATG	GAAGGCTGTTGGCATAGAGTCTCGCCTTCT	
Castres	CGACGAGCAGGTGAAGGAGCTGTTGAATG	GAAGGCTGTTGGCATAGAGTCTCGCCTTCT	
Robin		GAAGGCTGTTGGCATAGAGTCTCGCCTTCT	
BcA		GAAGGCTGTTGGCATAGAGTCTCGCCTTCT	
	* **** ****** ******	*********	
A8	TGCCATTGCTAAGGAATTCCACAAATTGAA	AGTCCGTTCTGTGCACCGGCGTCAACGAAAC	360
BcB	TGCCATTGCTAAGGAATTCCACAAATTGAA	AGTCCGTTCTGTGCACCGGCGTCAACGAAAC	360
34.01		AGTCCGTTCTGTGCACCGGCGTCAACGAAAC	
Castres		AGTCCGTTCTGTGCACCGGCGTCAACGAAAC	
Robin		AGTCCGTTCTGTGCACCGGCGTCAACGAAAC	
BcA		AGTCCGTTCTGTGCACCGGCGTCAACGAAAC	
	**********	************	
A8	TCCCGCTCATGTCGCTAACAGGGTGTCAC	CCGGAGACGCCATCTCCATGCTCTACGTGCT	420
BcB		CCGGAGACGCCATCTCCATGCTTTACGTGCT	
34.01	TCCCGCTCATGTCGCTAACAGGGTGTCAC	CCGGAGACGCCATCTCCATGCTTTACGTGCT	420
Castres		CCGGAGATGCCATCTCCATGCTTTACGTGCT	
Robin	TCCCGCTCATGTCGCTAACAGGGTGTCAC	CCGGAGACGCCATCTCCATGCTCTACGTGCT	420
BcA	TCCCGCTCATGTCGCTAACAGGGTGTCAC	CCGGAGACGCCATCTCCATGCTCTACGTGCT	420

A8		480
3cB	TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT	480
34.01	TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT	480
Castres	TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT	480
Robin	TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT	480
BcA	TTCTATCACTCACAGGGAATTGTCTAGCCTTAAGAATAAGATCGATGAATGGAAGAAGGT	480

	•	
8 <i>A</i>	CAAGGCATCTGAAGATGGCACCAAAGTGATCCAAAATATCAAGGACGACAGGACTAACAC	540
BcB	CAAGGCATCTGACAATGGCACCAATGTGATCCAAAATATCAAGGACGACAGGACTAACAC	540
34.01	CAAGGCATCTGACAATGGCACCAATGTGATCCAAAATATCAAGGACGACAGGACTAACAC	540
Castres	CAAGGCATCTGAAGATGGCACCAAAGTGATCCAAAATATCAAGGACGACAGGACTAACAC	540
Robin	CAAGGCATCTGAAGATGGCACCAAAGTGATCCAAAATATCAAGGACGACAGGACTAACAC	540
BcA .	CAAGGCATCTGAAGATGGCACCAAAGTGATCCAAAATATCAAGGACGACAGGACTAACAC	540

	Cons3.1	
A8	CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTCACCCTTGAGAAACT	600
BcB	CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTAACCCTTGAGAAACT	600
34.01	CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTAACCCTTGAGAAAGT	600
Castres	CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTAACCCTTGAGAAACT	600
	CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTCACCCTTGAGAAACT	600
Robin	CTGGTTCGTTGCCCATGGATTCAAGGTAGCTGAGCTCAACGATGTCACCCTTGAGAAACT	600
BcA	**************************************	600
A8	TGCAACAGTGGTTAACGAATTGGTGTCCCACAAAGATATGATTTACATTAACGACGCTAT	660
BcB	TGCAACAGTGGTTAACGAATTGGTGTCCCACAATGATATGATCTACATTAACGACGCTAT	660
34.01	TGCAACAGTGGTTAACGAATTGGTGTCCCACAATGATATGATCTACATTAACGACGCTAT	660
Castres	TGCAACAGTGGTTAACGAATTGGTGTCCCACAATGATATGATCTACATTAACGACGCTAT	660
Robin	TGCAACAGTGGTTAACGAATTGGTGTCCCACAAAGATATGATTTACATTAACGACGCTAT	660
BcA	TGCAACAGTGGTTAACGAATTGGTGTCCCACAAAGATATGATTTACATTAACGACGCTAT	660

- 0		
A8	GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGCTGA	
BcB	GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGCTGA	
34.01	GAAGCAAAACGTTGATAAATGGAACAAGGAGTCTGAAAGATTGGCCATGATGGCTGA	
Castres	GAAGCAAAACGTTGATAAATGGAACAAGGAGTCTGAAAGATTGGCCATGATGGCTGA	
Robin	GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGCTGA	
BcA	GAAGCAAAACGTTGATAAATGGACCAAGGAGGAGTCTGAAAGATTGGCCATGATGGCTGA	720

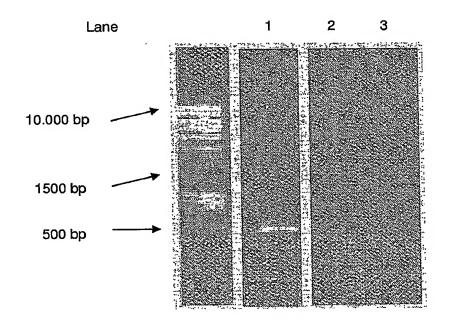
A8	ACAGGGTATATCTGGAGCCAAGGGTAAGAAGGATGGATTCTCATTCGCCGGTCTTAGTGT	780
BcB	ACAGGGTATATCTGGAGCAAAGGGTAAGAAGGATGGATTCTCATTCGCCGGTCTTAGTGT	
34.01	ACAGGGTATATCTGGAGCAAAGGGTAAGAAGGATGGATTCTCATTCGCCGGTCTTAGTGT	
Castres	ACAGGGTATATCTGGAGCAAAGGGTAAGAAGGATGGATTCTCATTCGCCGGTCTTAGTGT	
	ACAGGGTATATCTGGAGCCAAGGGTAAGAAGGATGGATTCTCATTCGCCGGTCTTAGTGT ACAGGGTATATCTGGAGCCAAGGGTAAGAAGGATGGATTCTCATTCGCCGGTCTTAGTGT	
Robin	ACAGGGTATATCTGGAGCCAAGGGTAAGAAGGATGGATTCTCATTCGCCGGTCTTAGTGT ACAGGGTATATCTGGAGCCAAGGGTAAGAAGGATGGATTCTCATTCGCCGGTCTTAGTGT	
BcA	**************************************	
	Rspe4 Stop Rspe3C	
A8	CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGGTCTAAGAGGTTAAGGATGACTATTT	• ໘⊿∩
	CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGGTCTAAGAGGTTAAGGATGACTATTT	
BcB		
34.01	CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGCTCTAAGAGGTTAAGGATGACTATTT	
Castres	CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGCTCTAAGAGGTTAAGGATGACTATTT	
Robin	CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGGTCTAAGAGGTTAAGGATGACTATT	
BcA	CATCAGCCTTCTTGTTGCCGCCGTCGCGGTTGTGGTCTAAGAGGGTTAAGAATGACTATTT	
	***********************	7

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Rspe3C

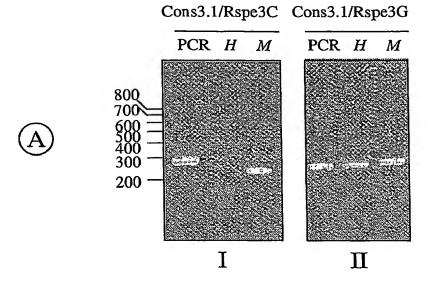
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BcB	GTGGGCGTAATG	852
34.01	GTGGGCGTAATG	849
Castres	GTGGGCGTAATG	849
Robin	GTGGGCGTAATG	852
BcA	GTGGGCGTAATG	852

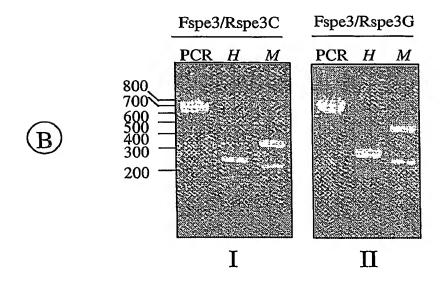
Figure 5



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Figure 6





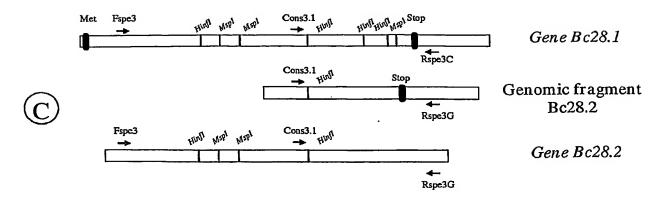


Figure 7

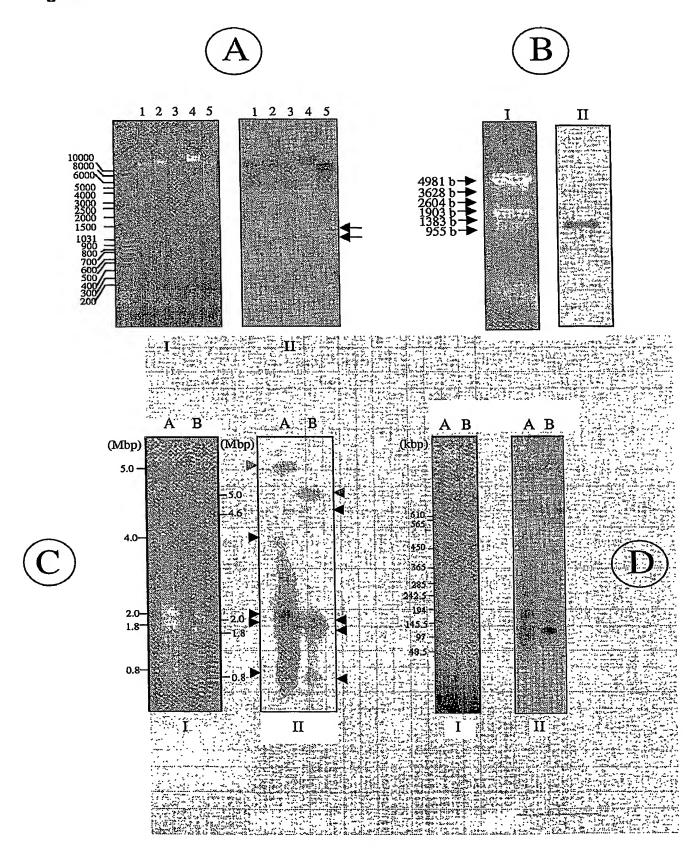
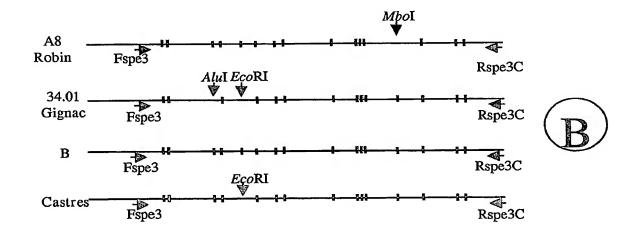


Figure 8





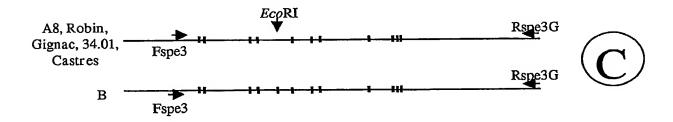
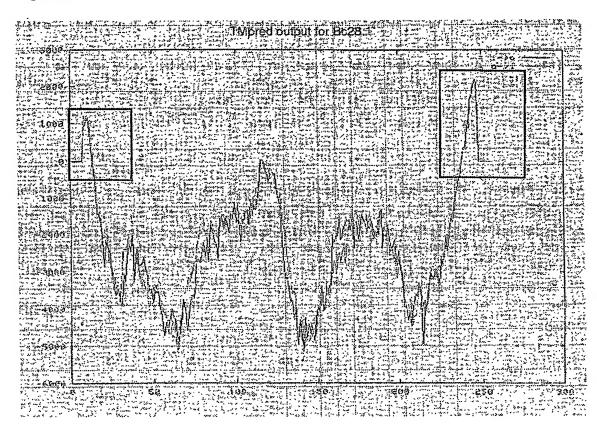
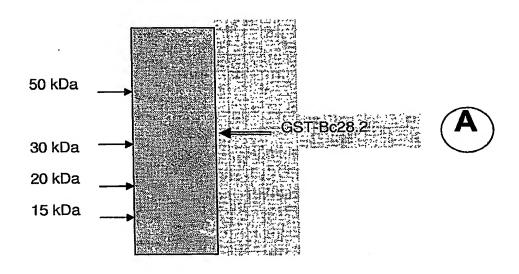


Figure 9



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Figure 10



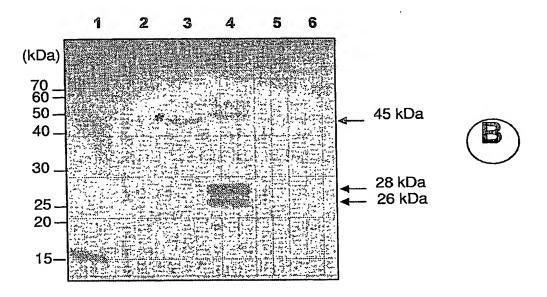


Figure 11

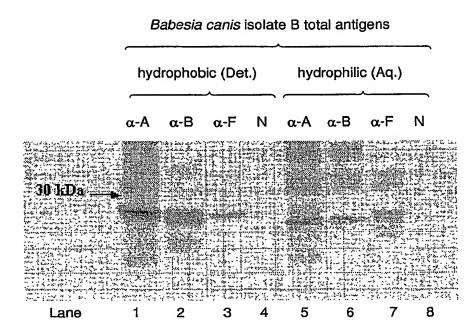


Figure 12

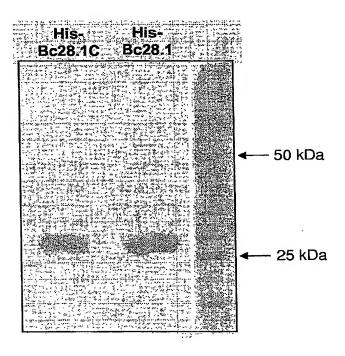
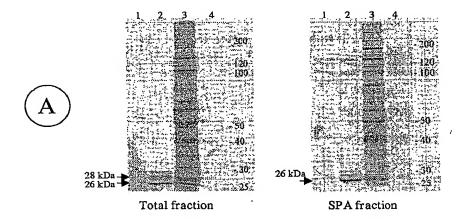


Figure 13



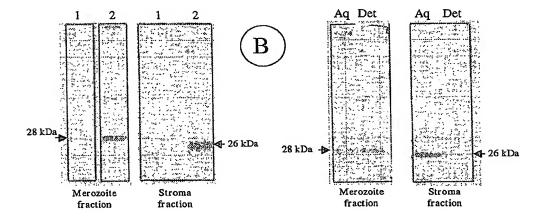
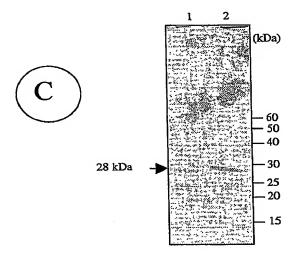
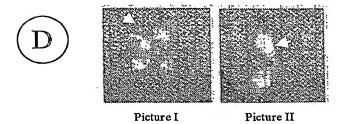


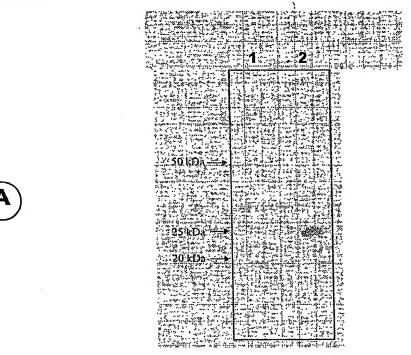
Figure 13 (continued)





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Figure 14



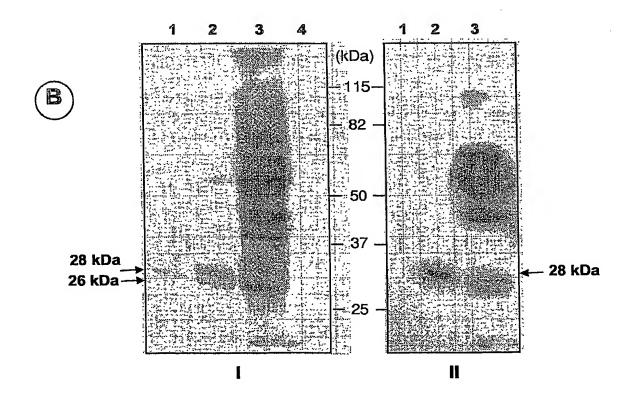
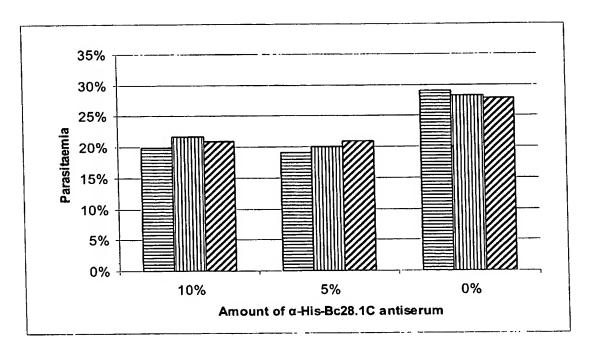


Figure 15



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